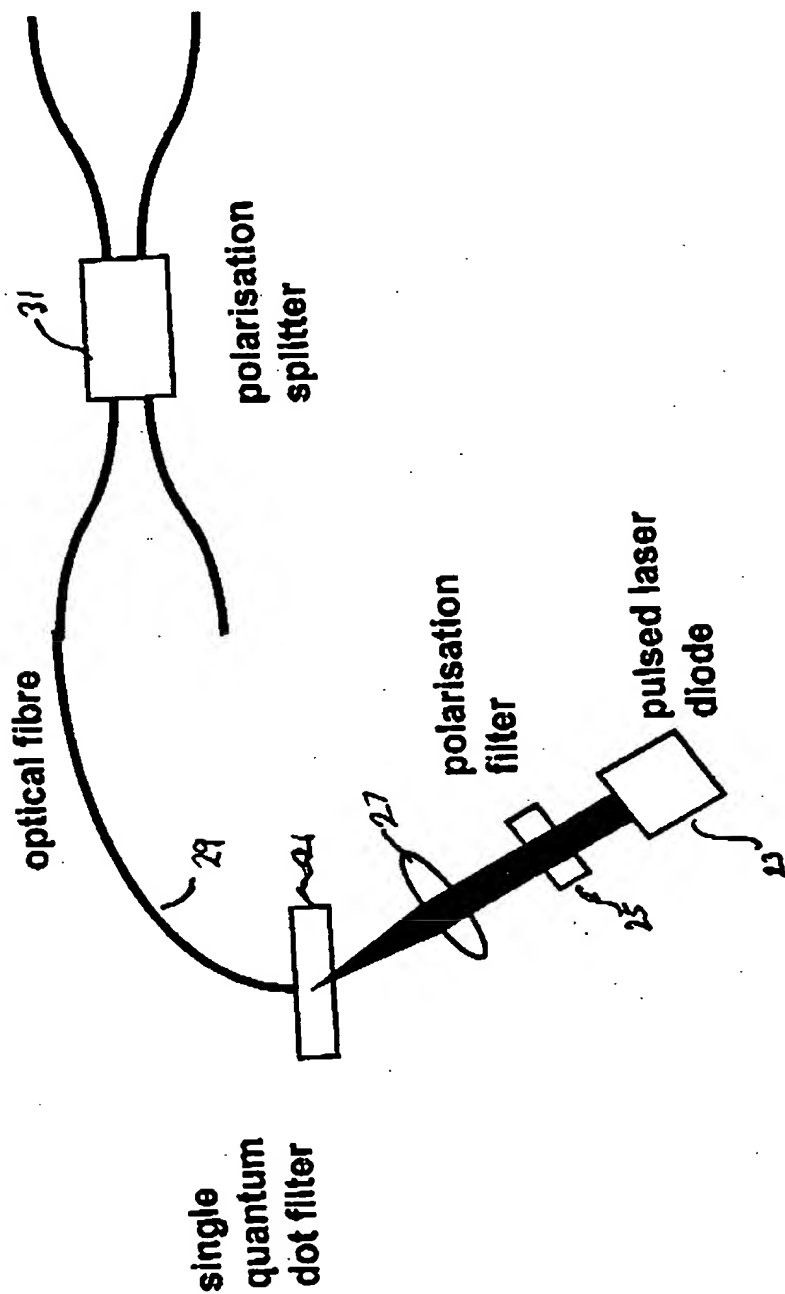


FIGURE 1.



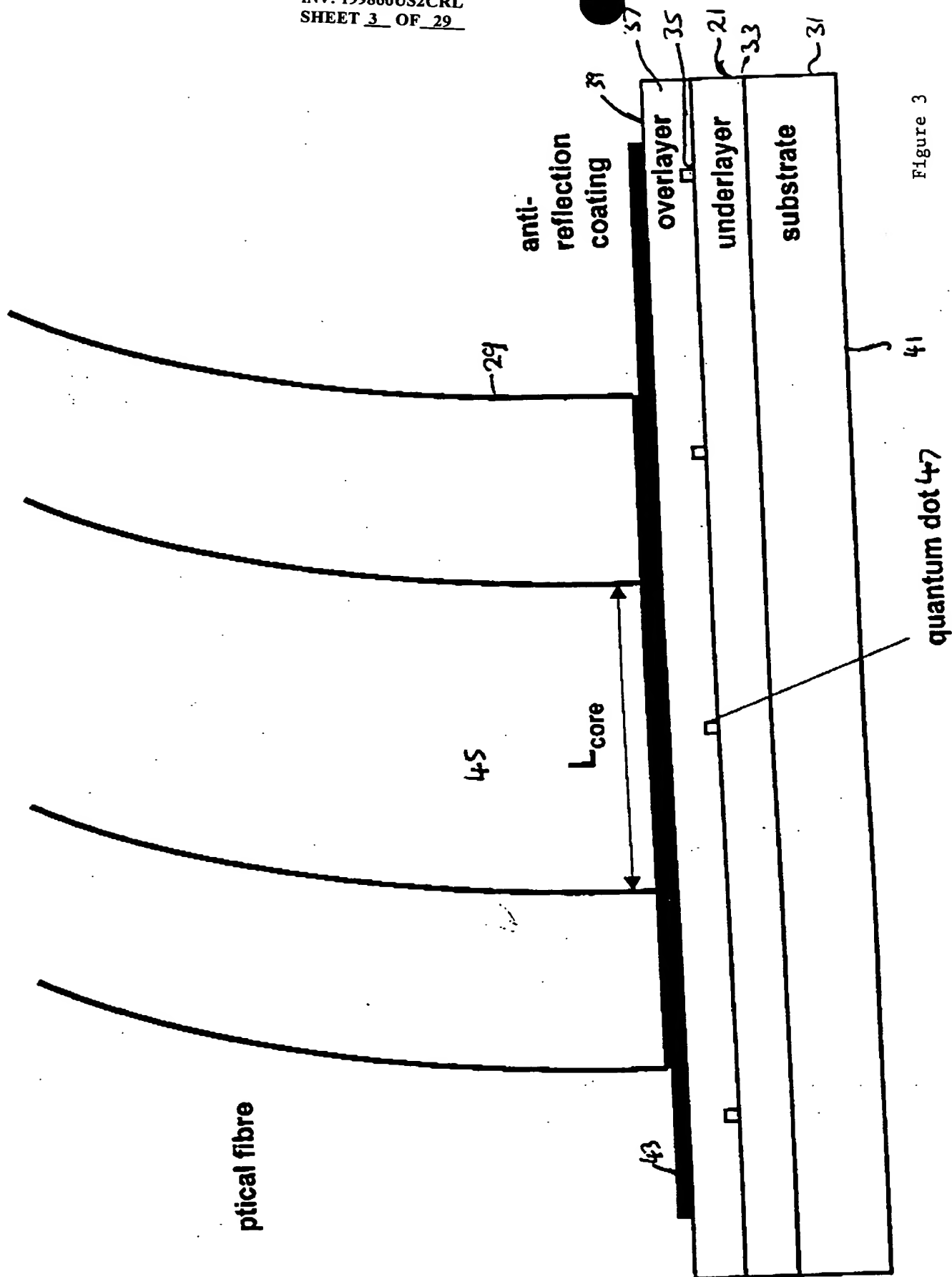


Figure 3

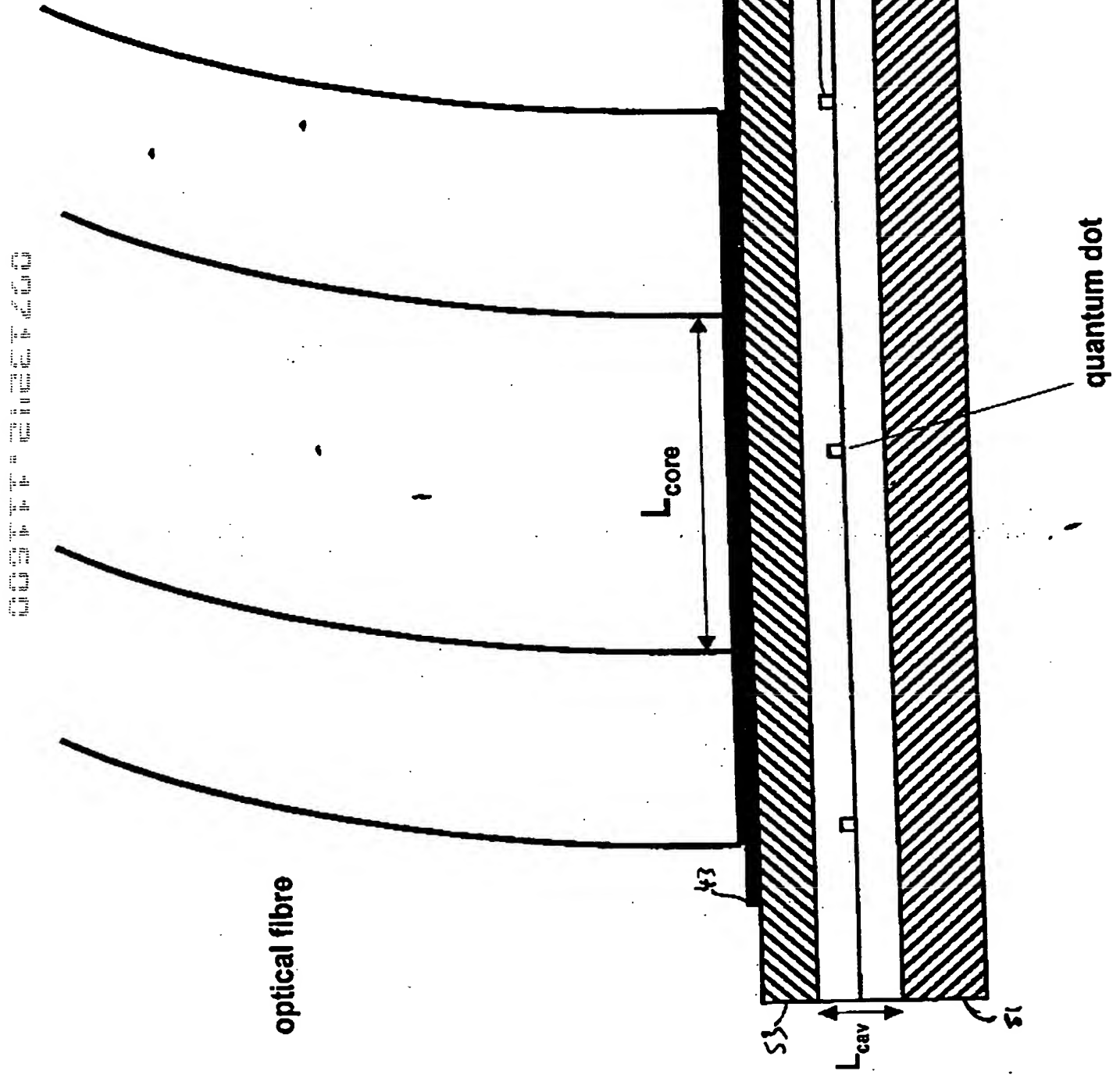


Fig 4

collection
 optic

anti-
 reflection
 coating

L_{aperture}

opaque film

43

57

39

overlay r

underlayer

substrate

quantum dot 47

55

37

35

33

21

31

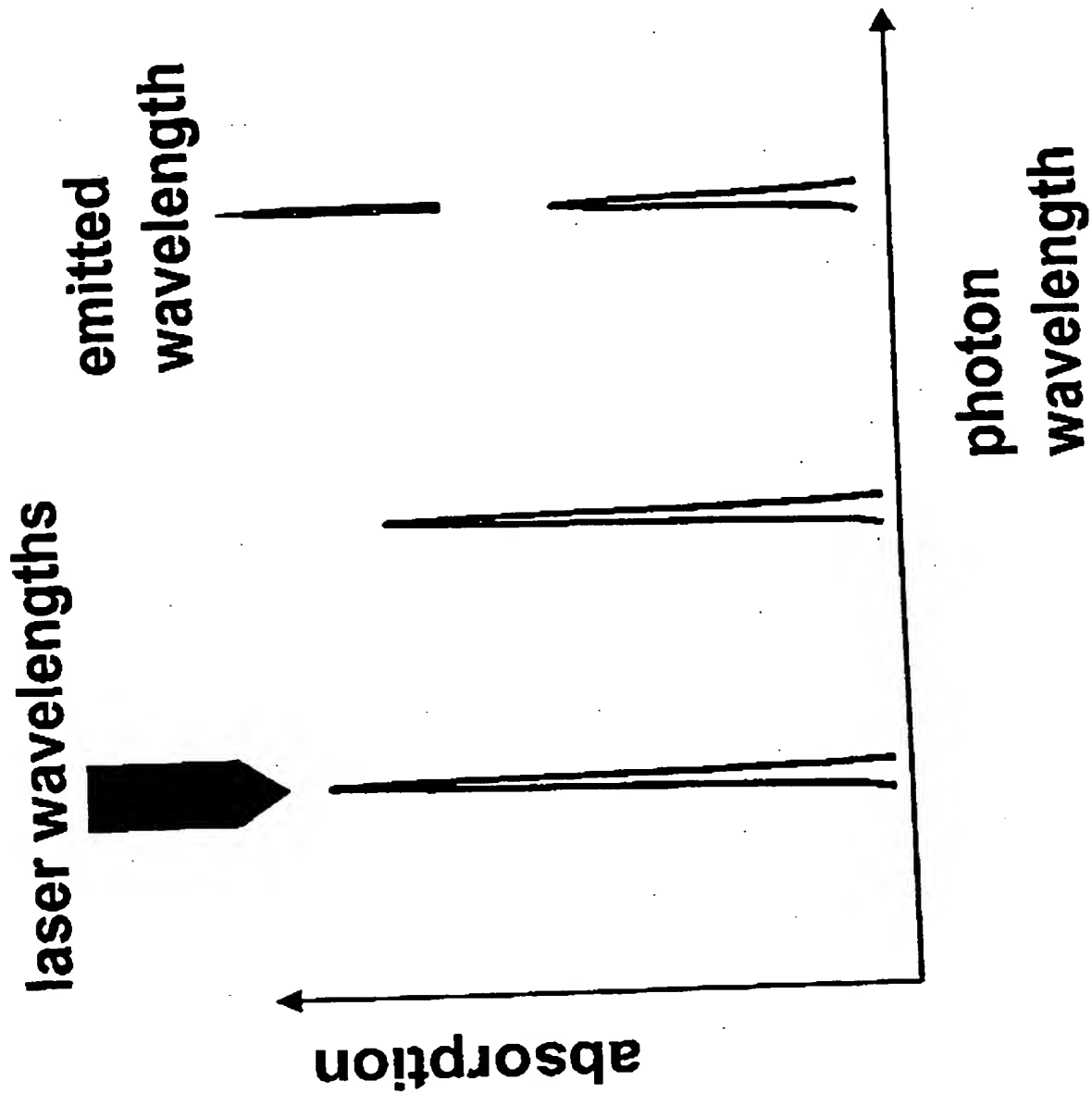
Fig.5

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Fig. 6



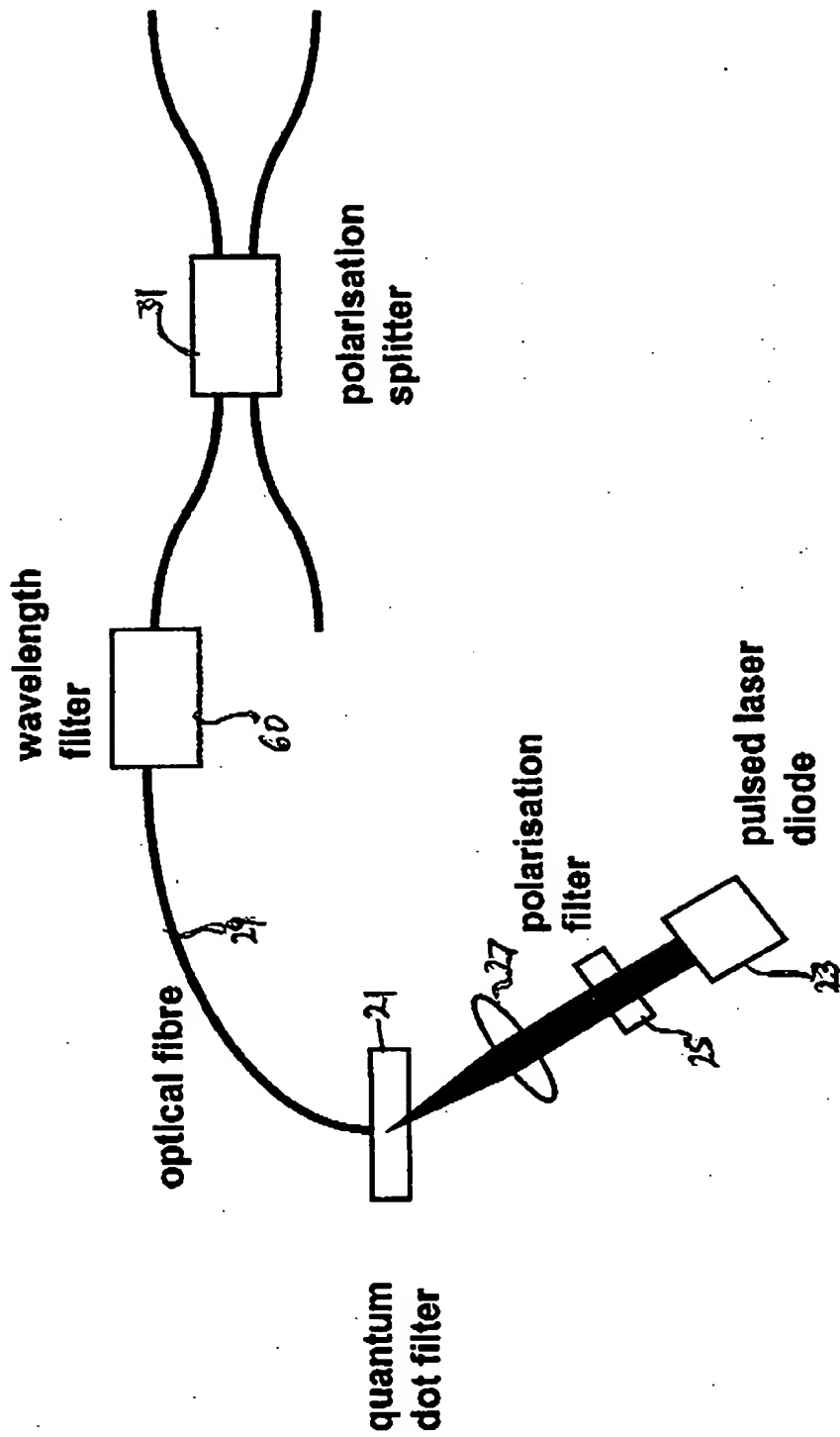


Fig 7

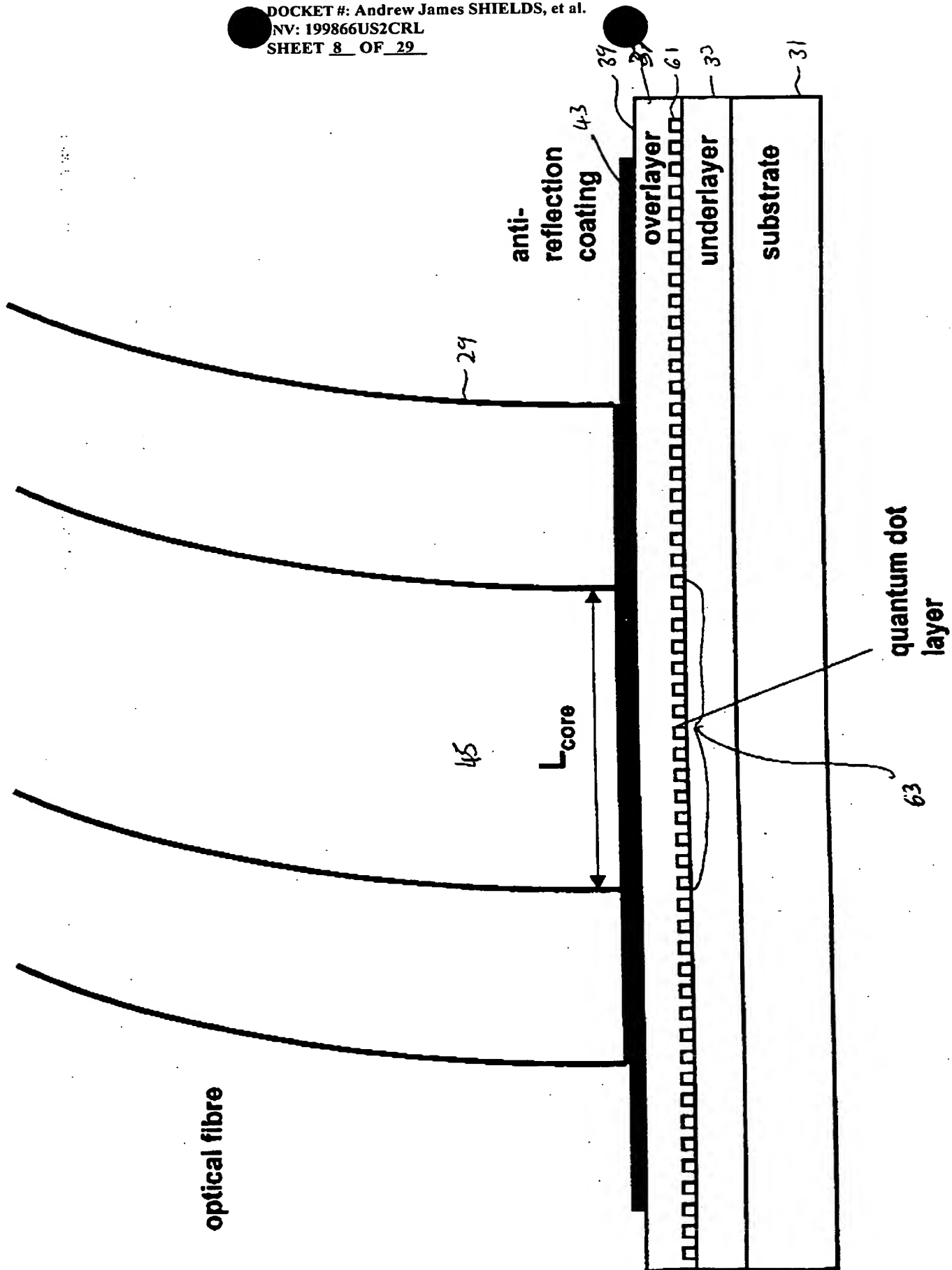


Fig 8

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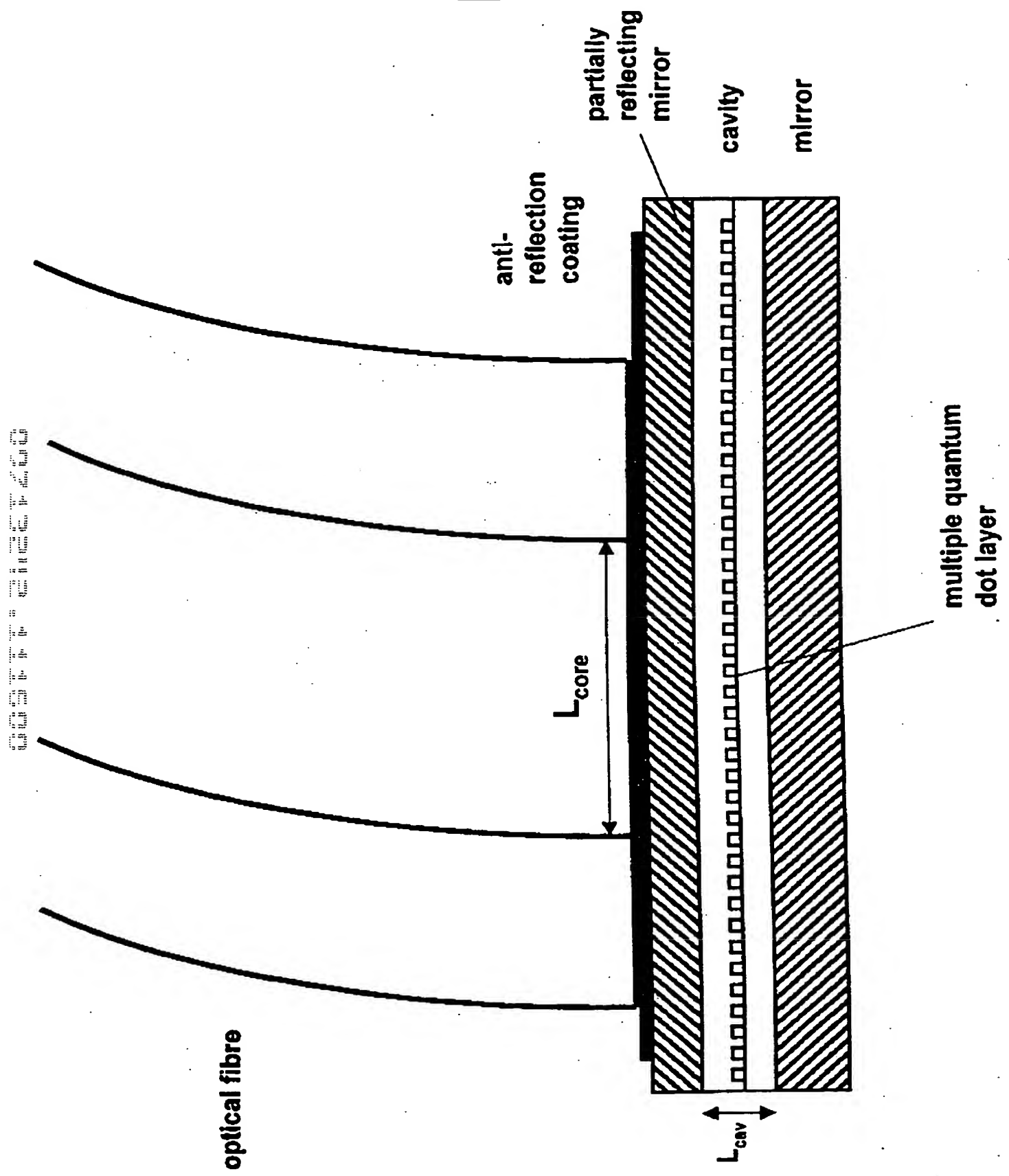
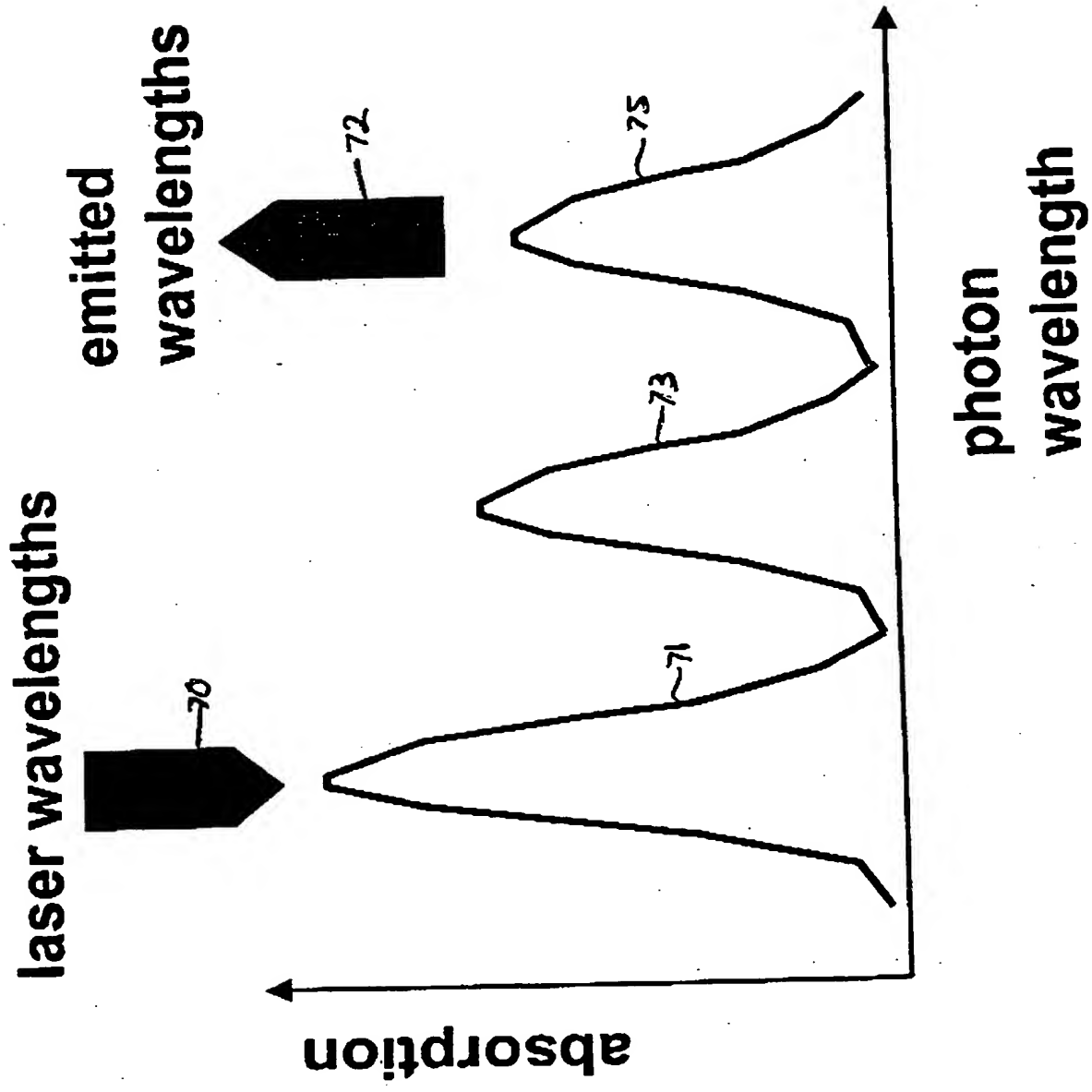


Fig 9



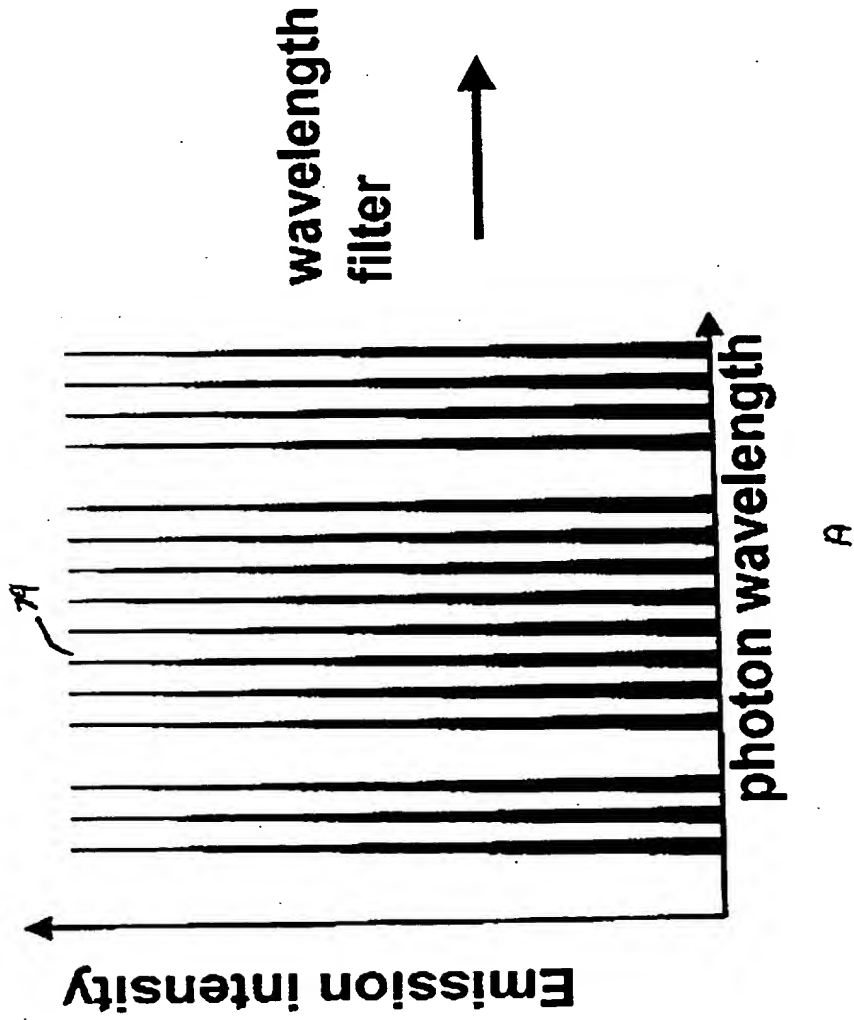
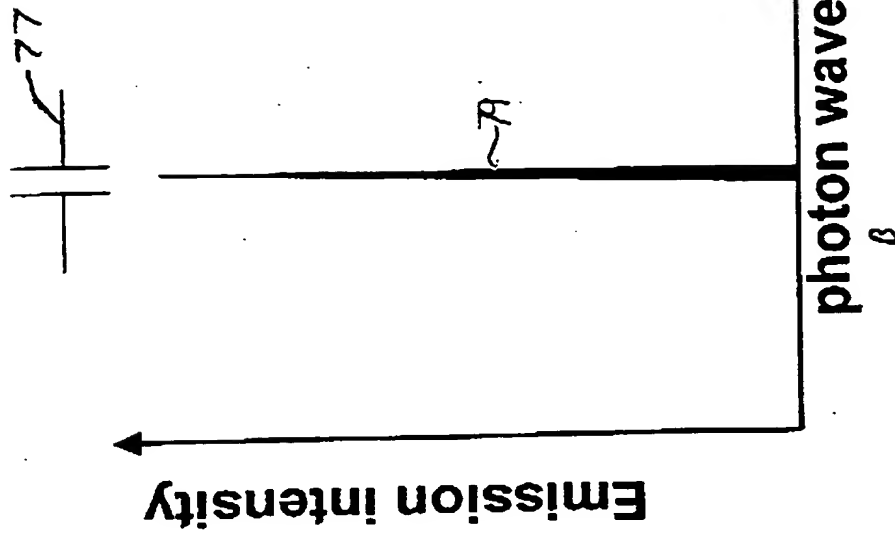
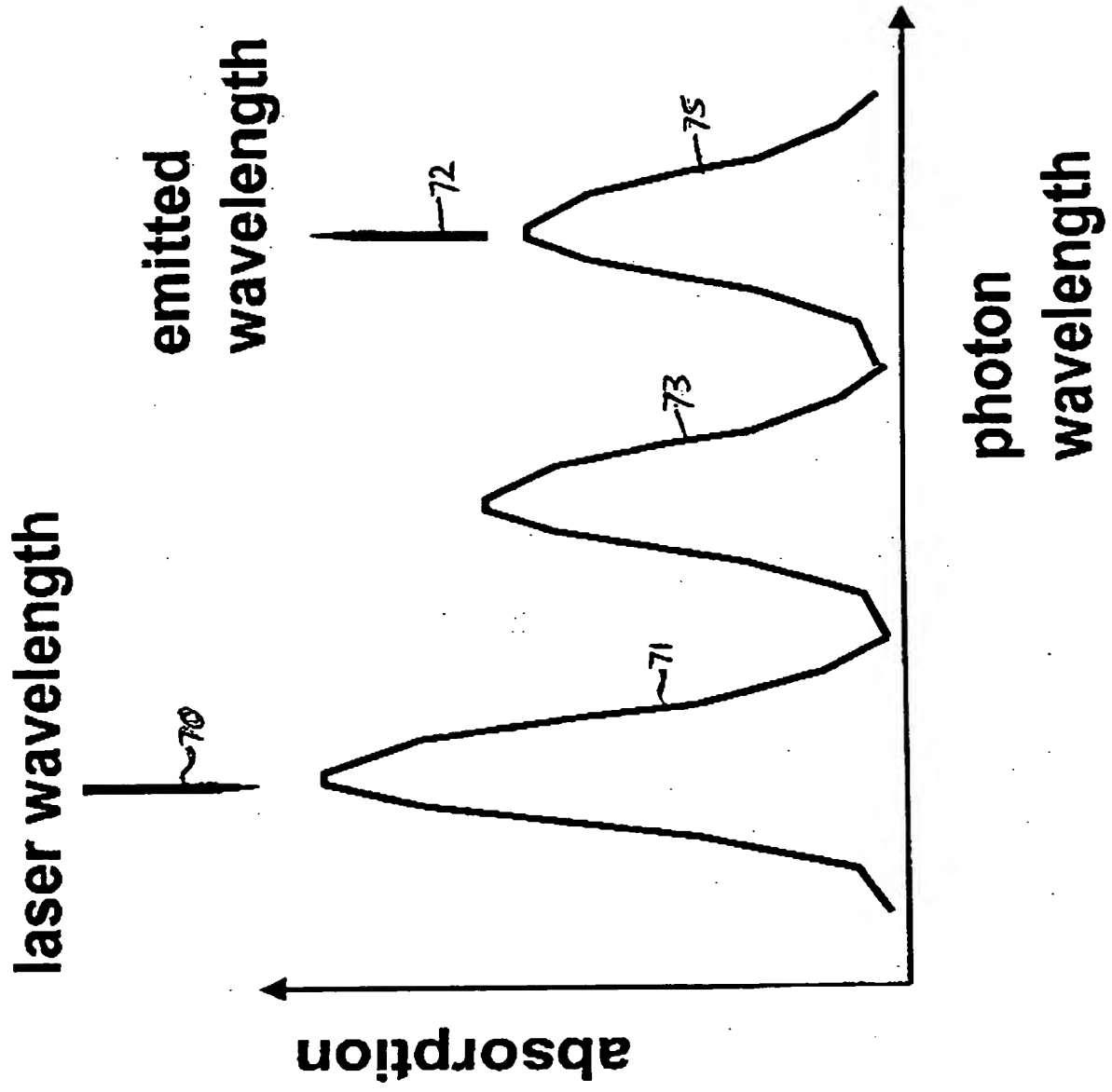


Fig. 11

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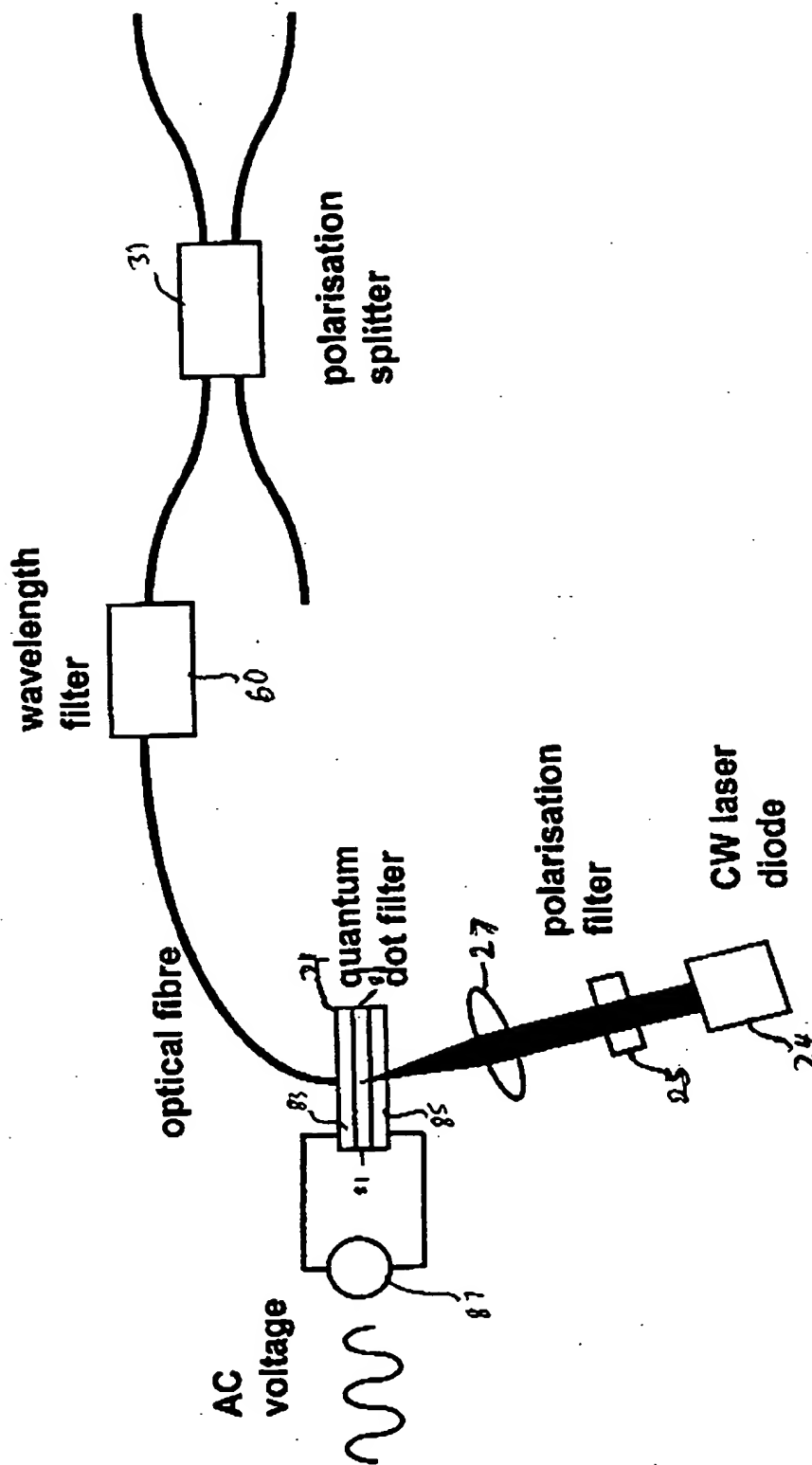
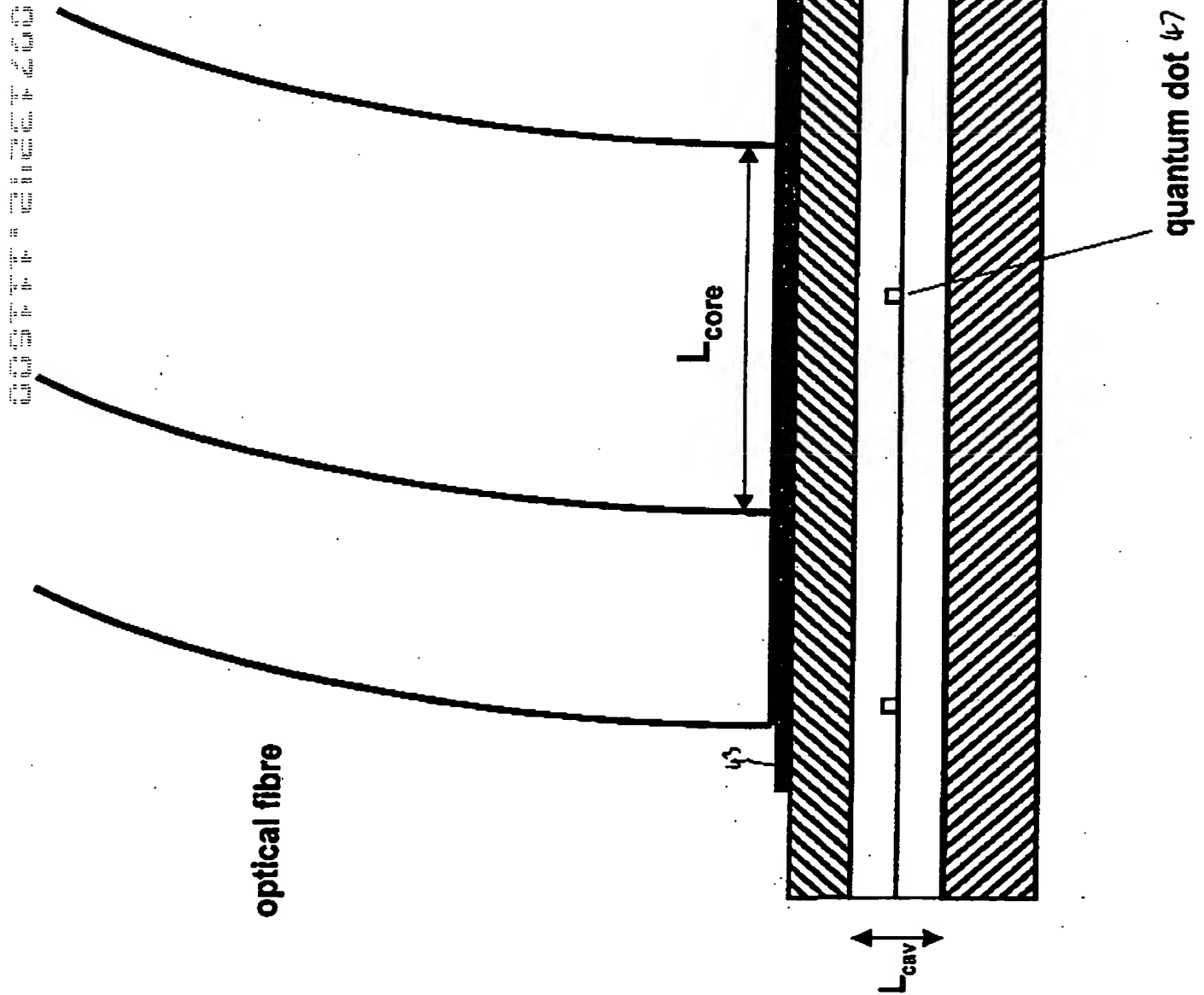


Fig.13



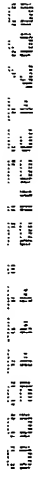


Fig. 15

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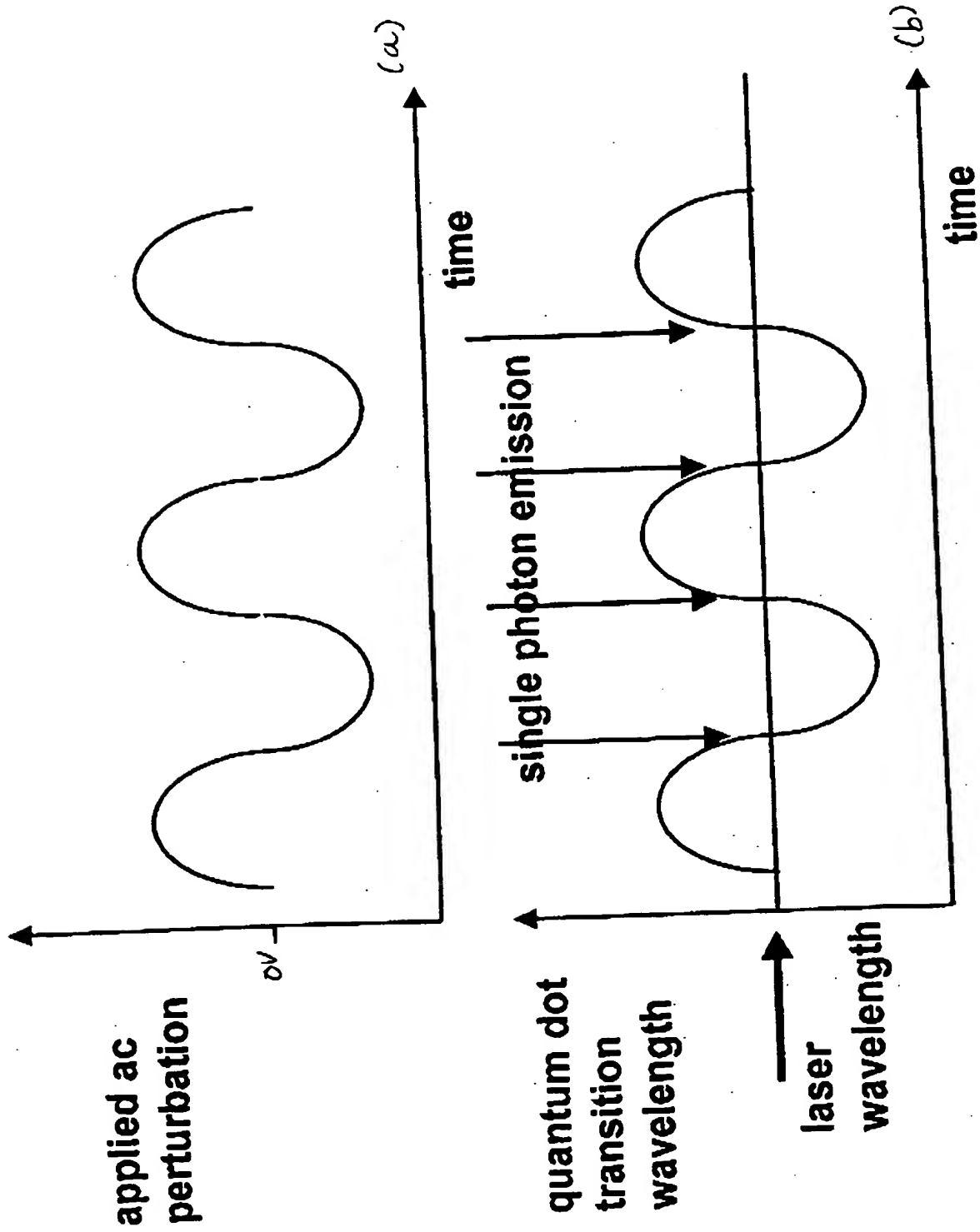


Fig.16

Electrically Injected QD Single Photon Emitter

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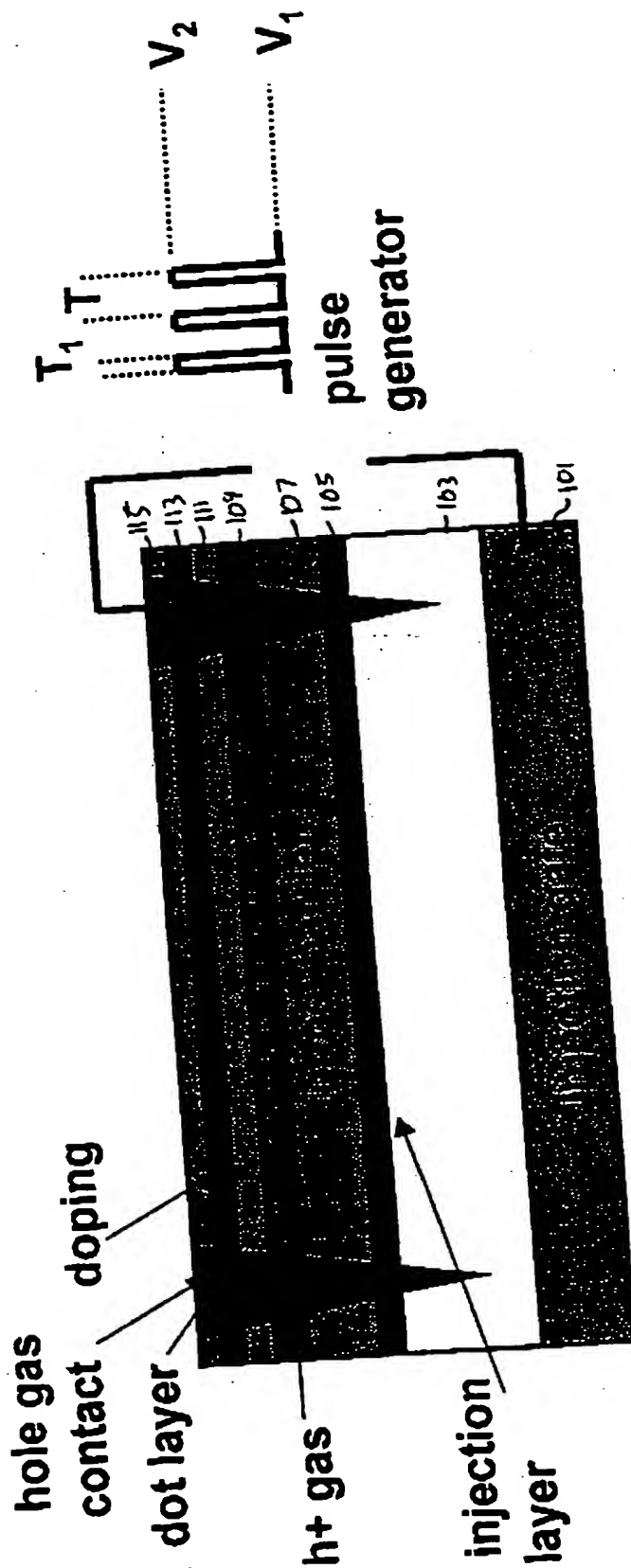
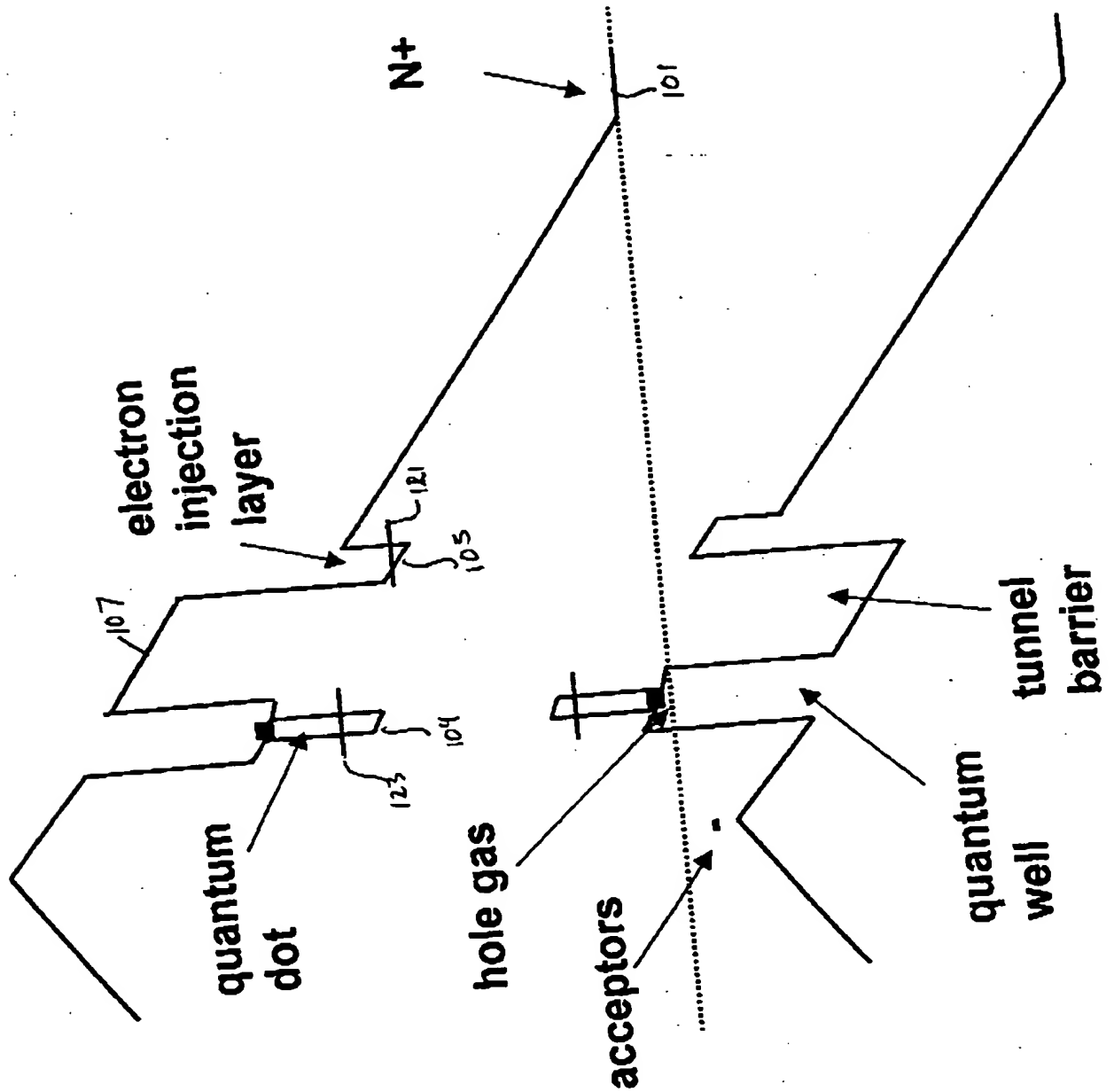
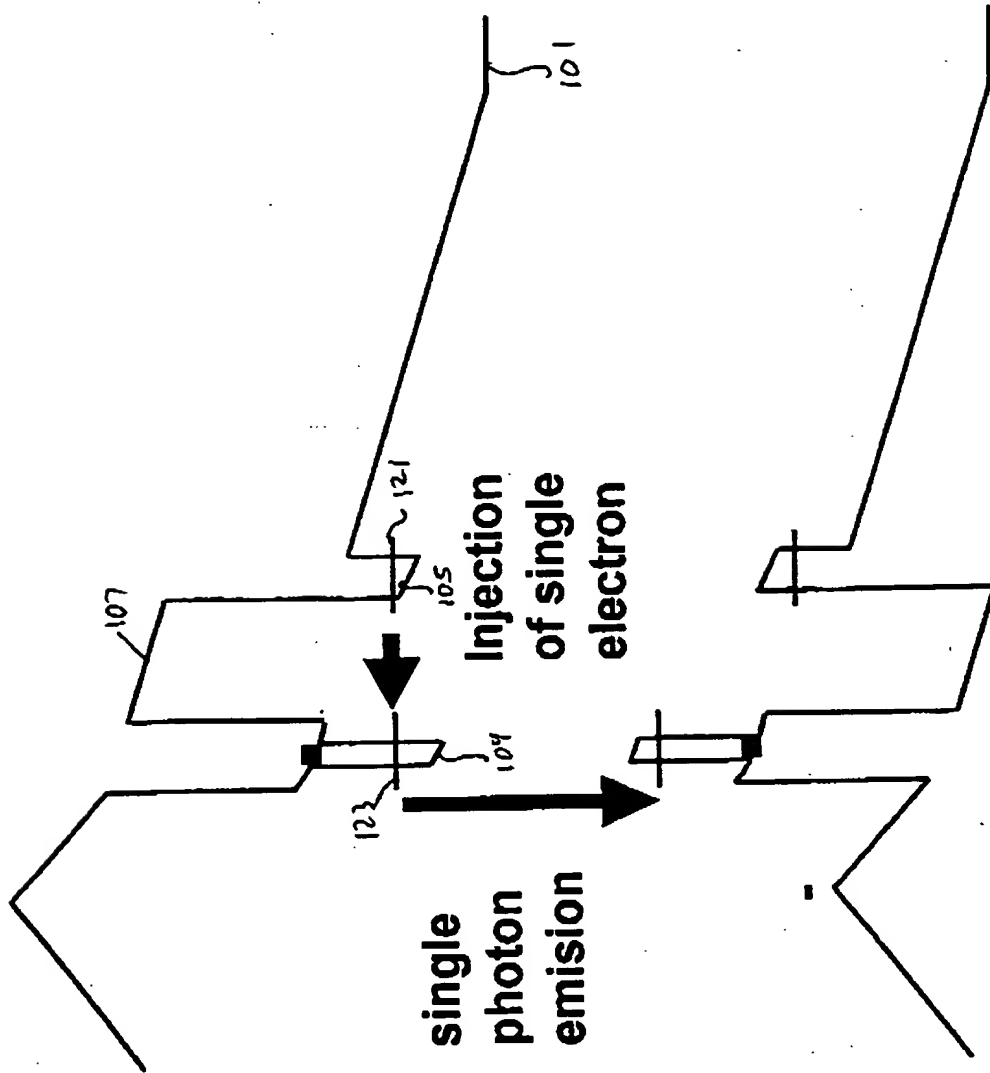


Fig.17

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Fig.18





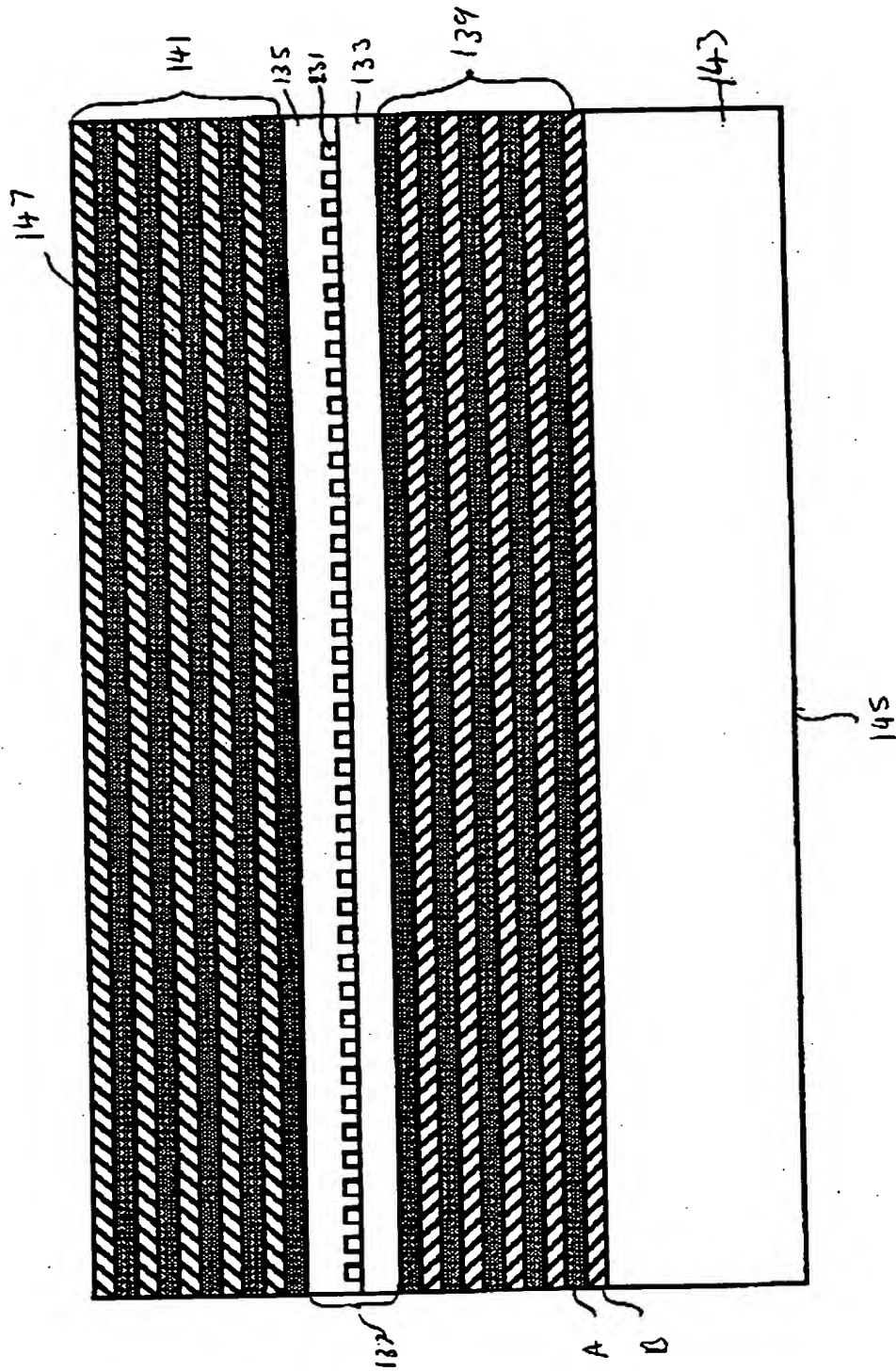


Figure 20

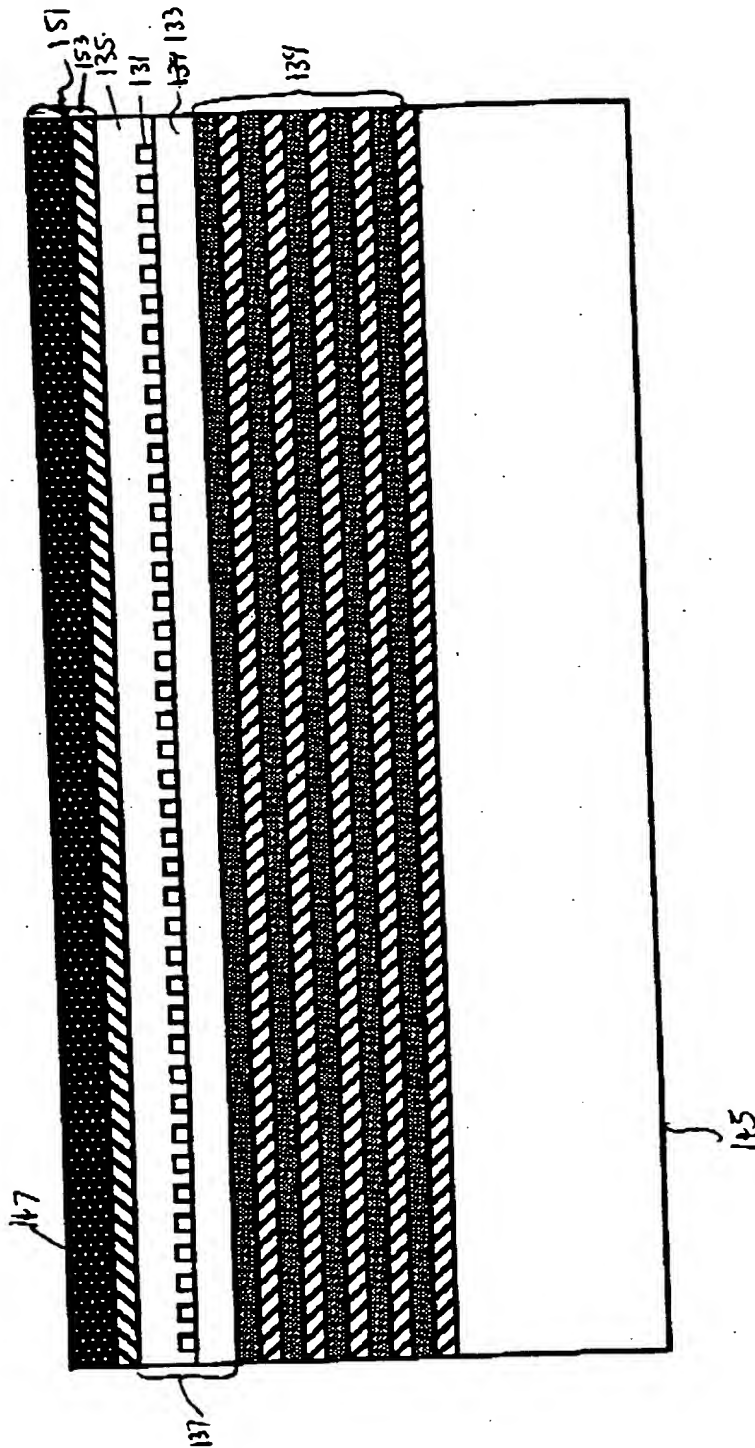
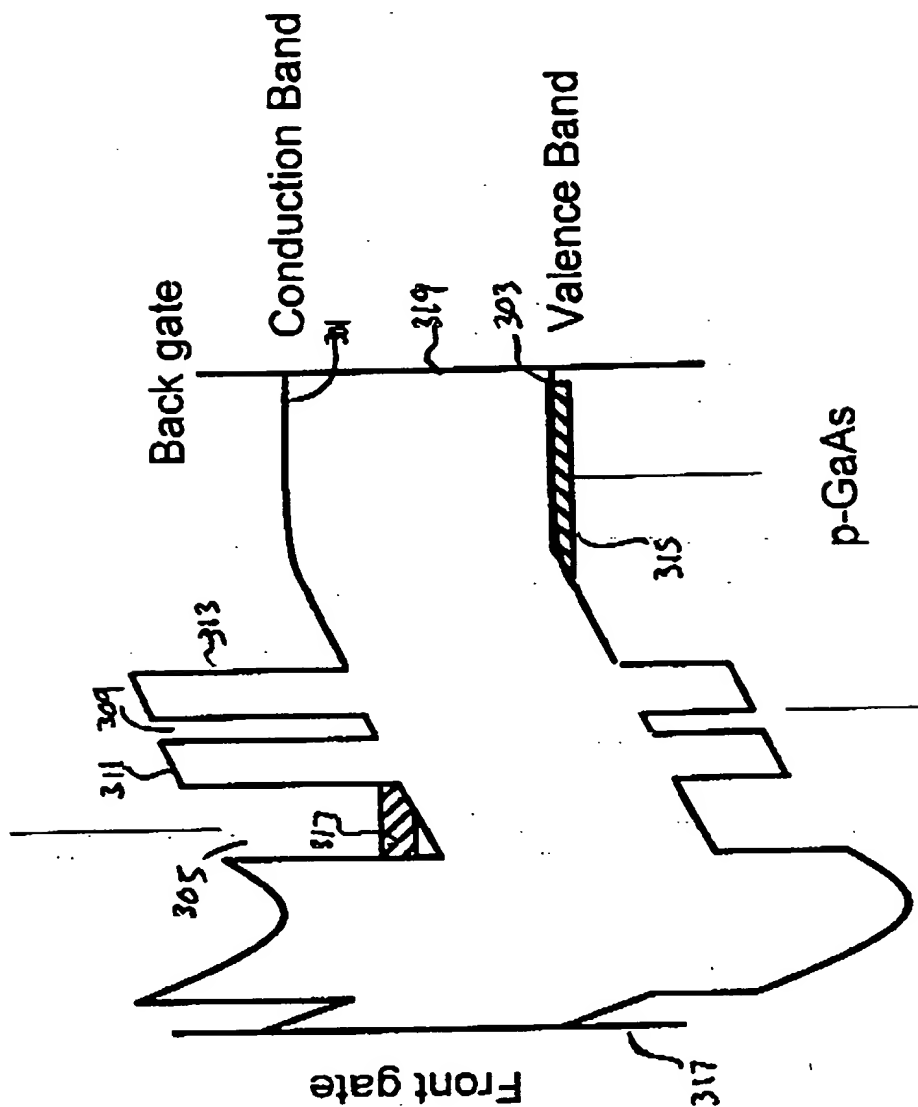


Figure 21

Active QW - remotely doped QW containing tunable excess electron density



Tunnelling QW - controls injection of holes into active region

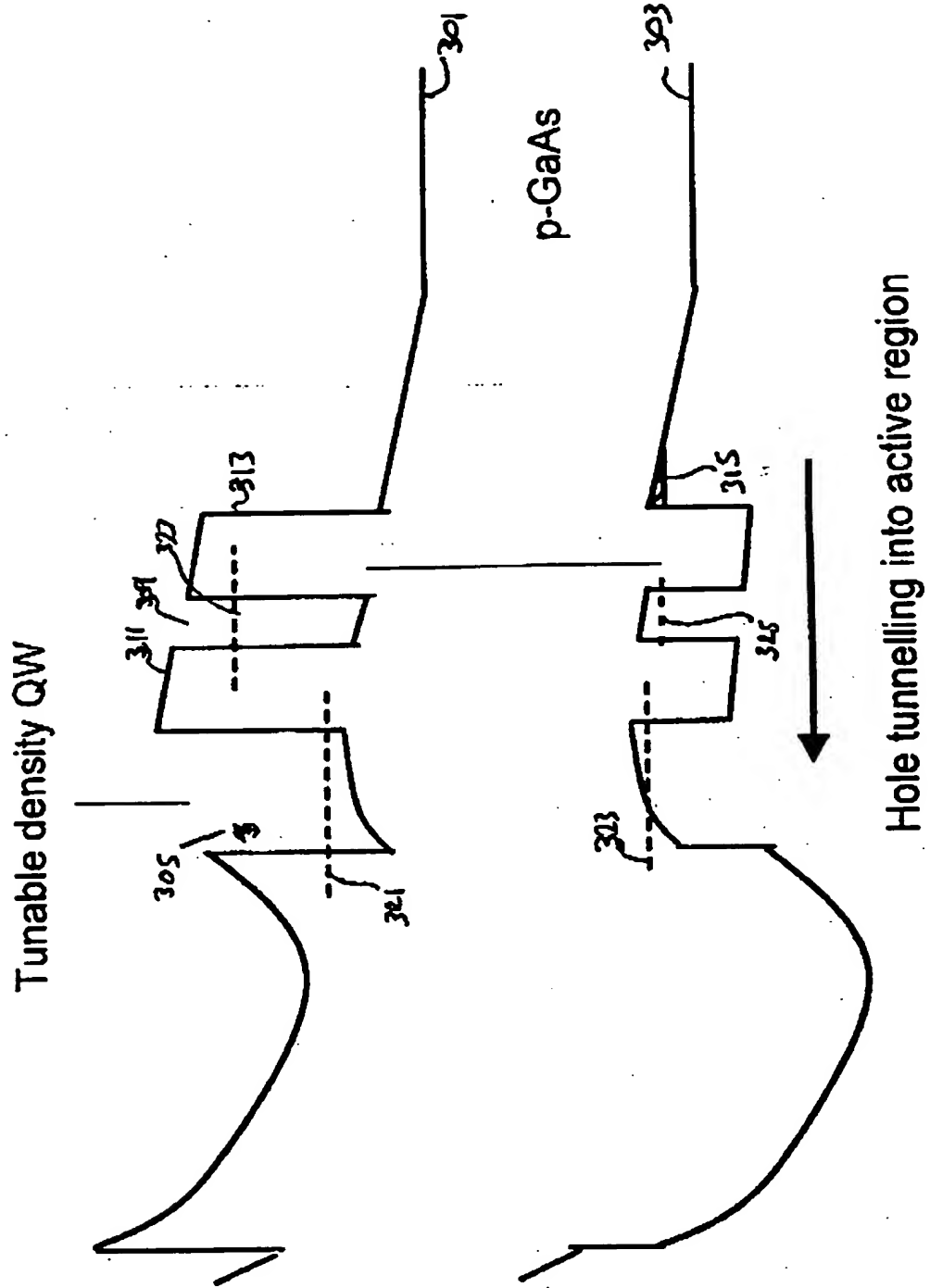


Figure 23

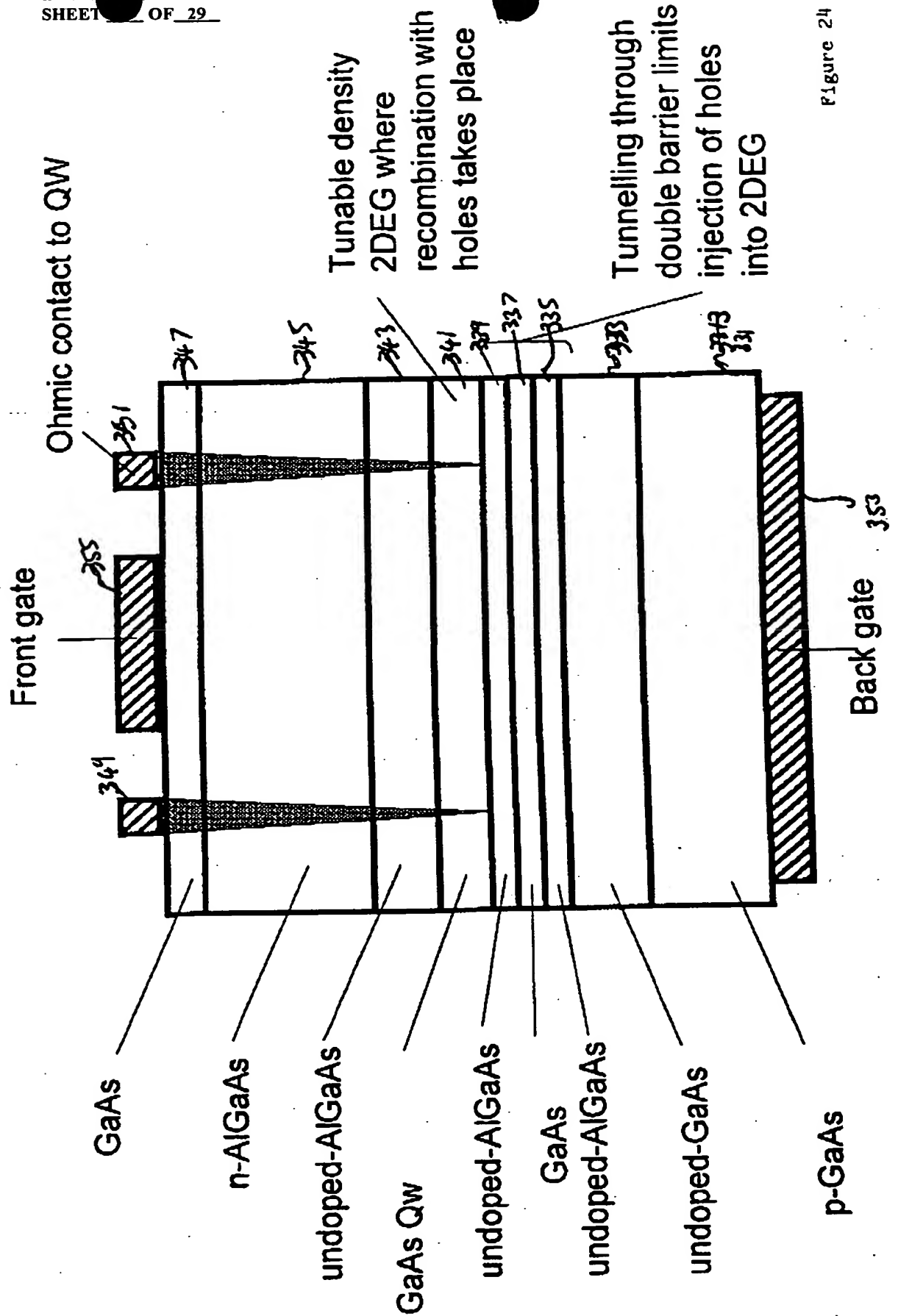
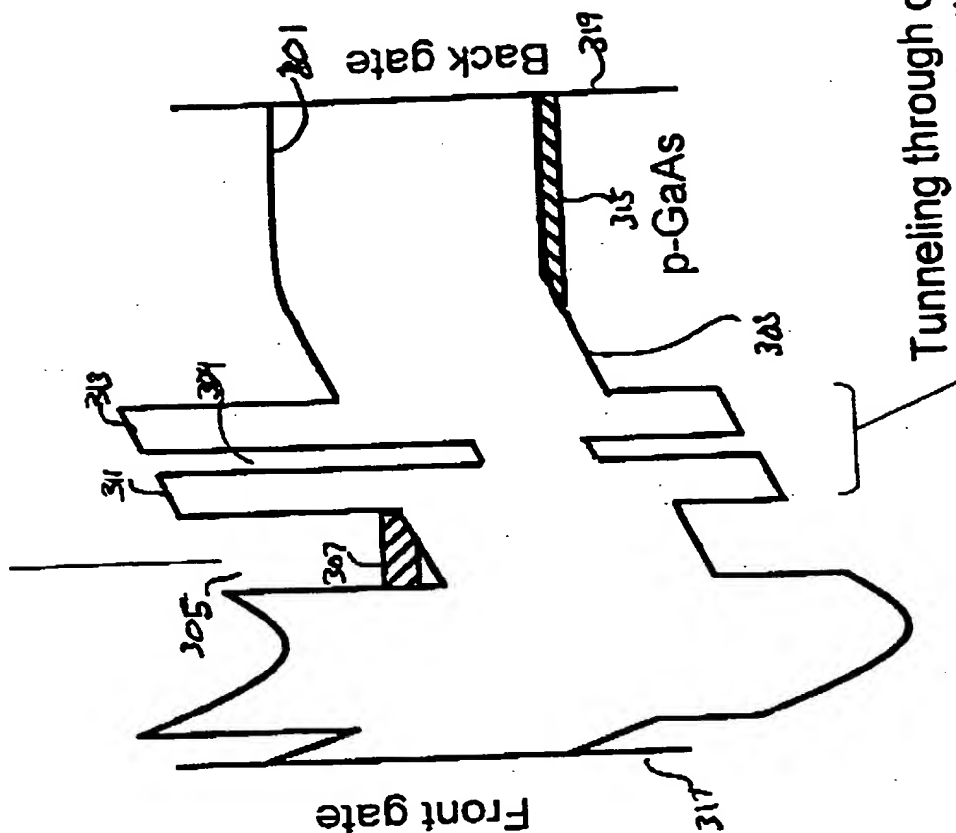


Figure 24

Active region - remotely doped QW containing tunable excess electron density



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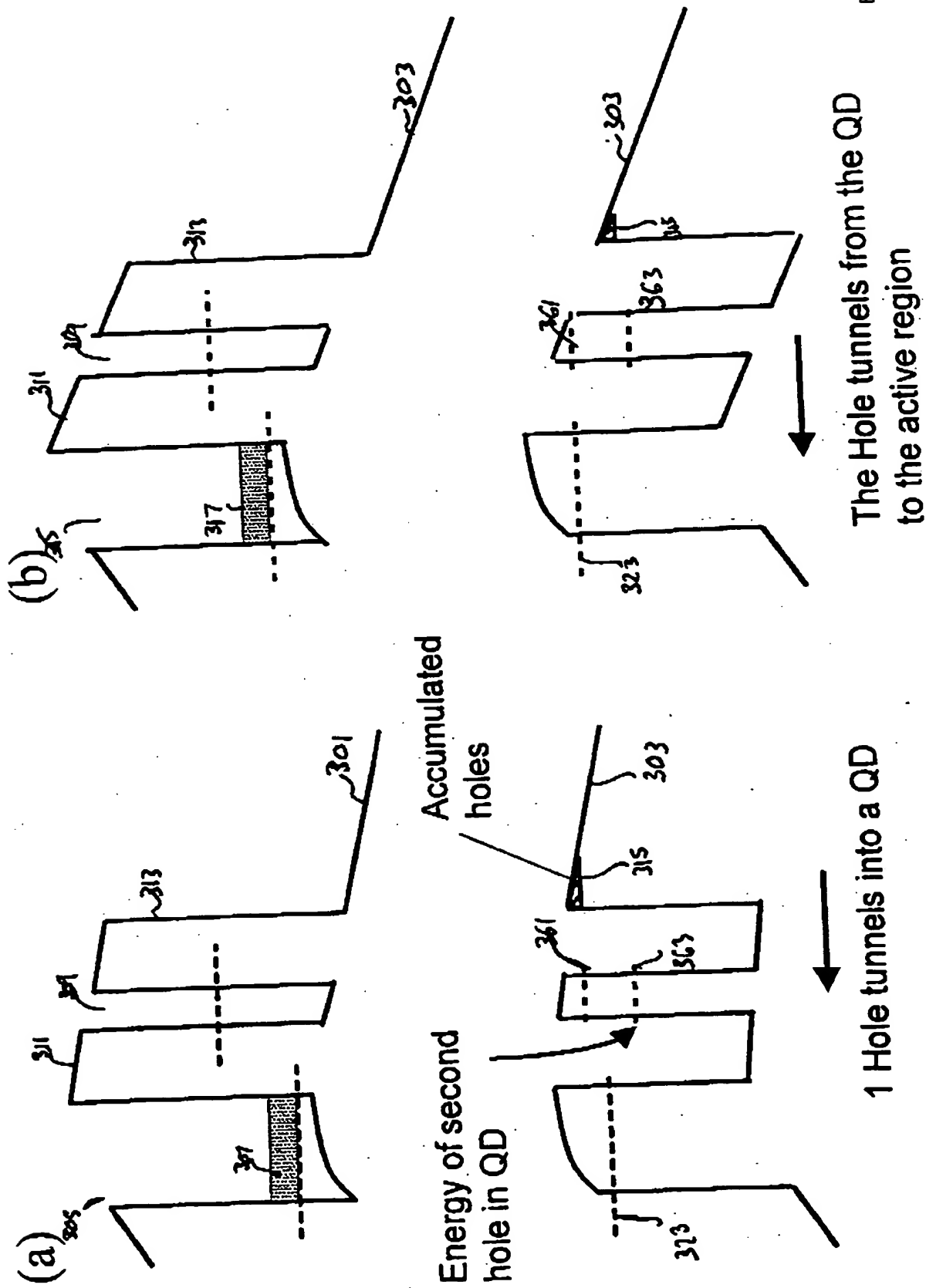


Figure 26

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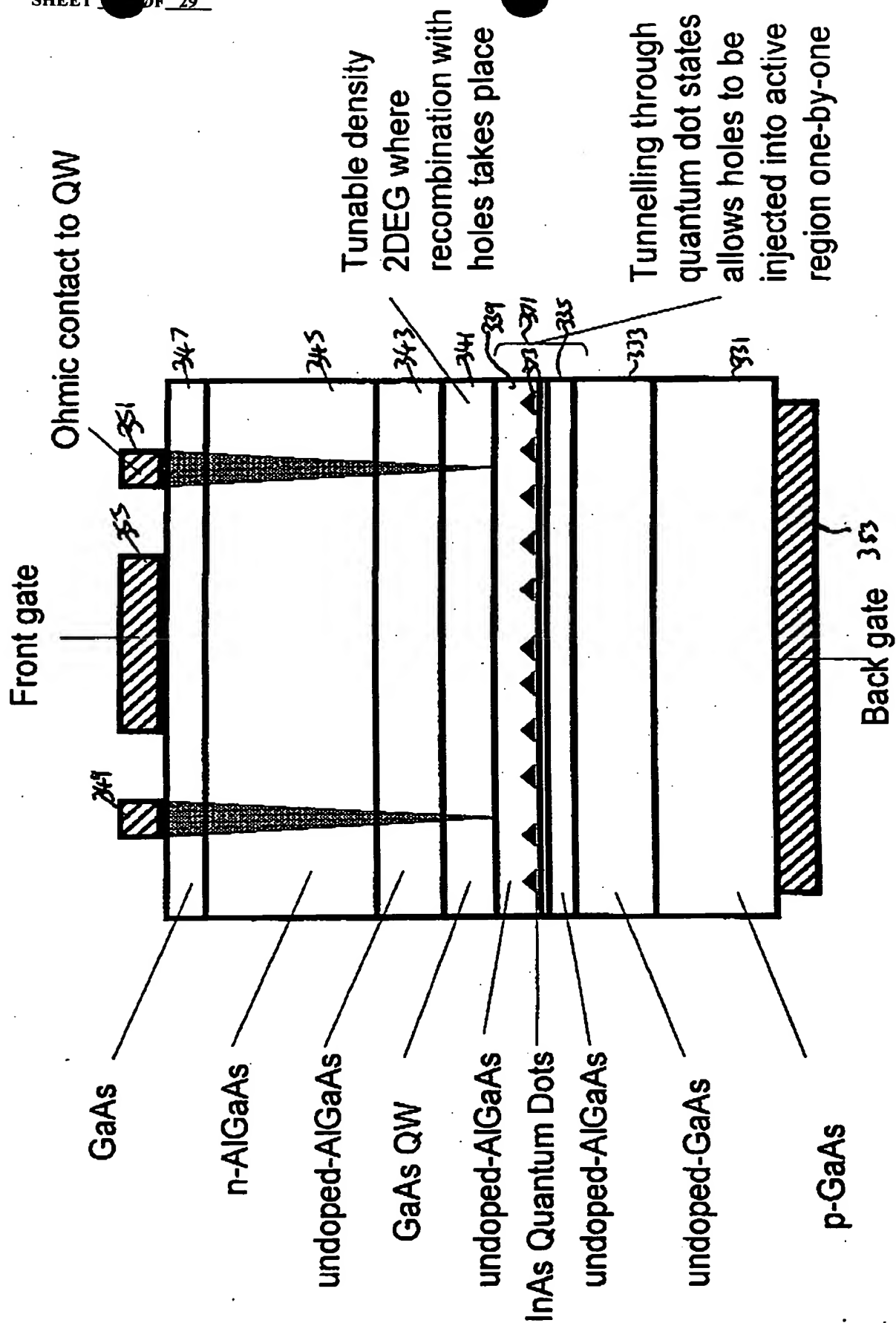


Figure 27.

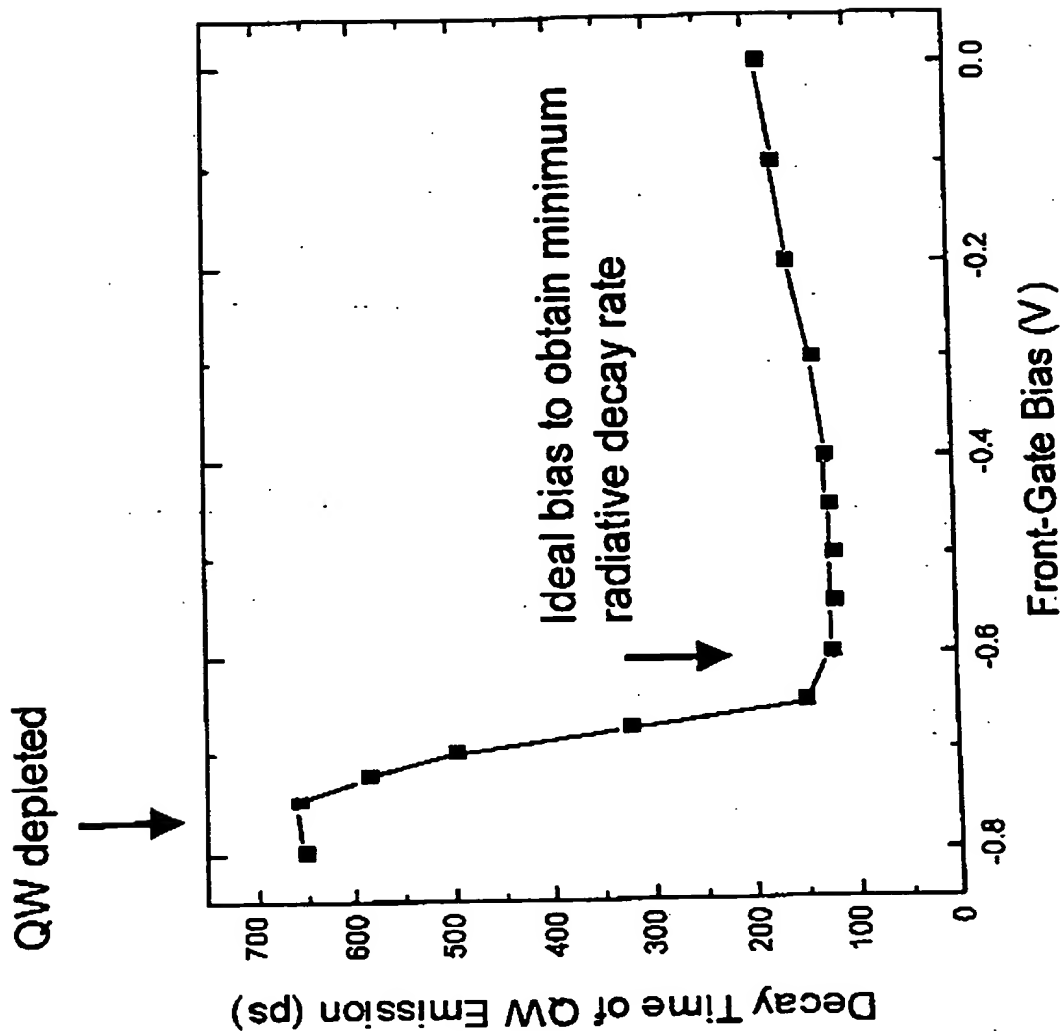


Figure 28

Increasing excess electron density

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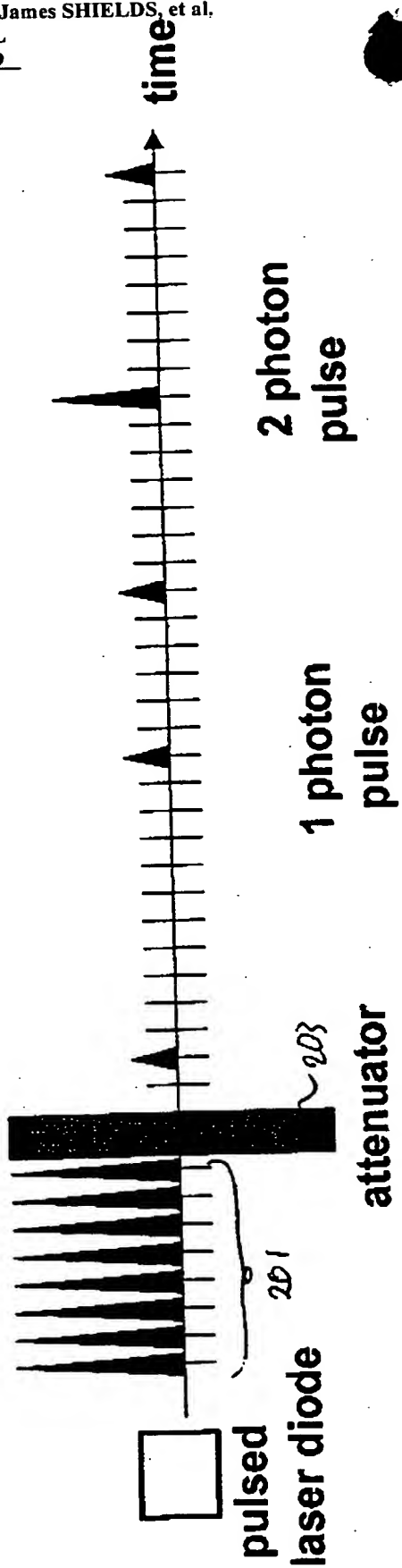


Figure 29